Write your name here

Surname	Other names

Pearson Edexcel Functional Skills

Centre Number | | | | | |

Candidate Number | | | | |

Mathematics

Level 1

6 – 10 November 2017

Time: 1 hour 30 minutes

Paper Reference

FSM01/01

You must have:
Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, compasses.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone until the end of the 5 day test window.

Signature: _____

Instructions

- Use a **black** ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- **Calculators may be used.**

Information

- The total mark for this paper is 48.
- The marks for each question are shown in brackets
  – *use this as a guide to how much time to spend on each question.*
- **You must show clearly how you get your answers because marks will be awarded for your working out.**
- **Check your working and your answers at each stage.**
- **This sign shows where marks will be awarded for showing your check.**

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.

Turn over ▶

P57088A

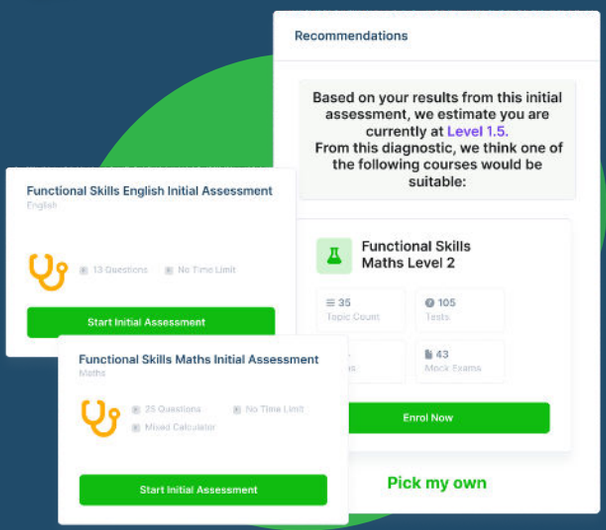
1/1/1/1

P 5 7 0 8 8 A 0 1 2 0

Pearson

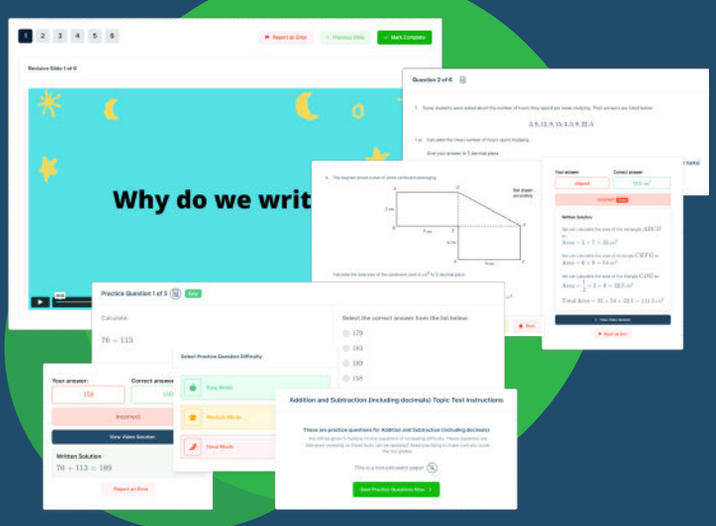
PASS FUNCTIONAL SKILLS

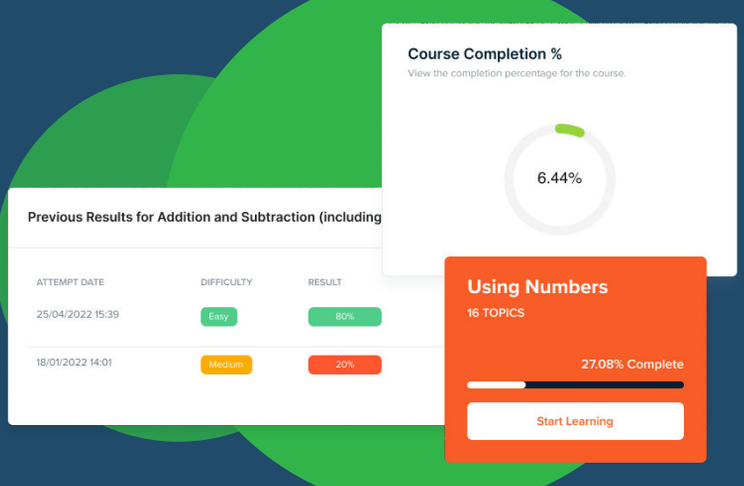
FUNCTIONAL SKILLS ONLINE COURSES



- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam

- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions





- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

Or visit
passfunctionalskills.co.uk

SECTION A: Catering college

Answer all questions in this section.

Write your answers in the spaces provided.

1 Mick is starting a course at college.

In the first week he will go to college every day from Monday to Friday.
Mick has a total of £12 to spend on lunch in this week.

He wants to spend £2.35 each day on lunch.

(a) Can Mick afford to spend £2.35 on lunch each day in this week?

(2)

Use the box below to show clearly how you get your answer.

£2.35 × 5 = £11.75 < £12

Yes

Mick needs to get to college on time.
He needs to plan what time to get up.

Mick will get a bus from Oxton to College bus stop.
Here is part of the bus timetable.

Stone	0706	0732	0800	0845
Oxton	0722	0748	0815	0901
Redworth	0739	0805	0833	0916
College bus stop	0801	0827	0855	0929

Mick needs to get to College bus stop by 9 am.

He allows

$\frac{3}{4}$ of an hour to get up and get ready to leave the house

10 minutes to walk from his house to the bus stop at Oxton.

Mick thinks the latest time he can get up in the morning is 7:15 am.

(b) Is Mick correct?
Show why you think this. (4)

Use the box below to show clearly how you get your answer.

Must arrive at 0855 College bus stop.
Leave Oxton at 0815.
Leave house at 0805.
Wake up at 0720

He is not correct, he can wake up at 0720.

(Total for Question 1 is 6 marks)

2 Mick completes a total of 5 assessments for his course.

He gets these marks.

56 42 47 59 48

Mick needs an average mark of 50 or more to pass the course.

Does Mick pass the course?
Show a check of your working. **(4)**

Use the box below to show clearly how you get your answer.

$\frac{56+42+47+59+48}{5} = \frac{252}{5} = 50.4 > 50$

Mick passed.

Use the box below to show your check.

☑ $50.4 \times 5 = 252$

(Total for Question 2 is 4 marks)

3 Mick makes cheese flan in the college restaurant.

He knows that one cheese flan is enough for 8 people.
Each cheese flan contains 5 eggs.

Mick is making cheese flan for 80 people.
He needs to know how many eggs to use.

Mick thinks he needs to use 45 eggs.

(a) Is Mick correct?
Show why you think this. **(3)**

Use the box below to show clearly how you get your answer.

$80 \div 8 = 10$

$10 \times 5 = 50$ eggs $\neq$ 45 eggs

Mick is not correct.

Mick asks some customers who eat in the restaurant to fill in this questionnaire.

Tick (✓) one answer for each question.

1. What did you think of your meal?

Poor	OK	Good
☐	☐	☐

2. What did you think of the service?

Poor	OK	Good
☐	☐	☐

3. What did you think of the value for money?

Poor	OK	Good
☐	☐	☐

Mick needs to record the answers from the customers on a data summary sheet.

(b) Design a data summary sheet for Mick.

(3)

	Poor	OK	Good
Meal			
Service			
Value			

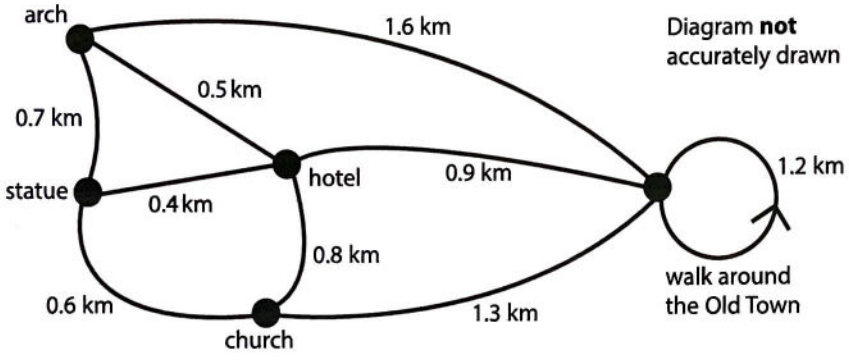
SECTION B: Holiday in Pula

Answer all questions in this section.

Write your answers in the spaces provided.

4 Olga manages a tour company in Pula.
She needs to plan a walk for the company.

Olga has this sketch of different places in Pula.



Olga will start and end the walk at the hotel.
She wants the walk to be no more than 6 km in distance.

Olga wants the walk to include

- a visit to the church
- a visit to the arch
- the walk around the Old Town.

Plan a walk for Olga.
Show the total distance of the walk. (4)

Use the box below to show clearly how you get your answer.

arch 0.5 → hotel 0.8 → church 1.3 → old town 1.2 → old town

0.5 + 0.8 + 1.3 + 1.2 =

hotel 0.5 → arch 0.7 → statue 0.6 → church 1.3 → old town 1.2 → old town 0.9 → hotel

0.5 + 0.7 + 0.6 + 1.3 + 1.2 + 0.9 =
5.2 km

(Total for Question 4 is 4 marks)

5 The tour company offers different tours.

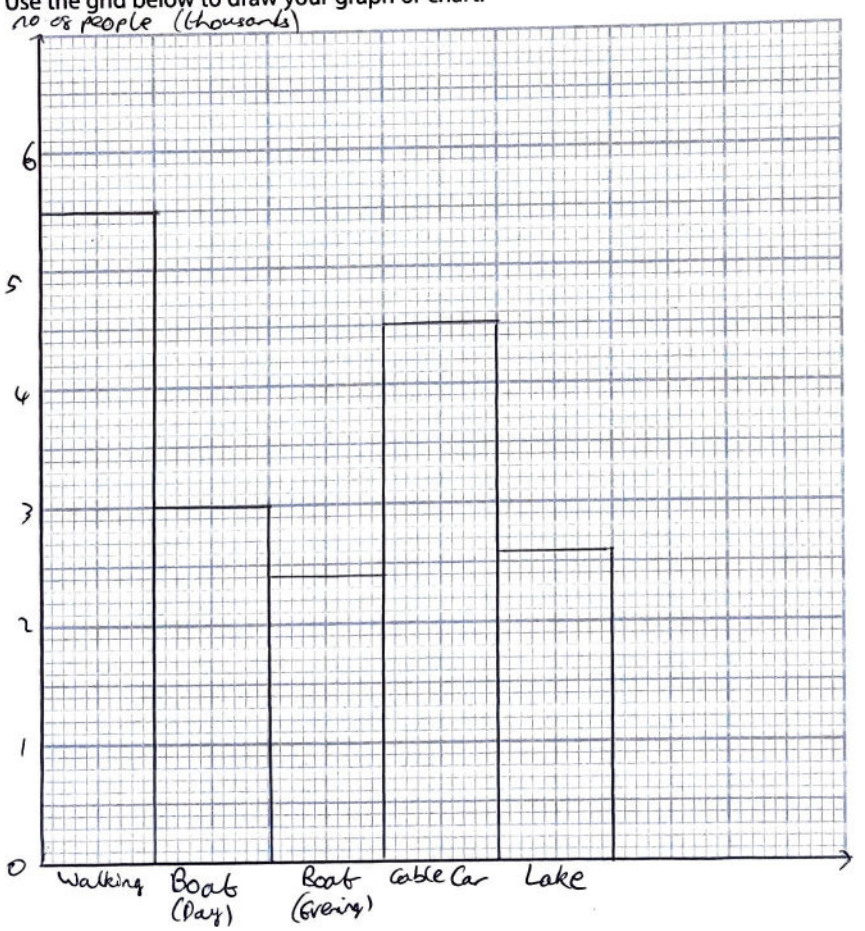
Olga has this information about the number of people who booked on each tour last year.

tour	Walking	Day boat trip	Evening boat trip	Cable car	Lake
number of people	5500	3000	2400	4500	2600

Olga wants to show this information in a graph or chart.

(a) Draw a suitable graph or chart for Olga. (3)

Use the grid below to draw your graph or chart.



Last year, the company had 18000 bookings in total.
5400 of these bookings were for boat trips.

Olga says

"$\frac{1}{3}$ of all our bookings last year were for boat trips."

(b) Is Olga correct?
Show a check of your working. (3)

Use the box below to show clearly how you get your answer.

$18000 \times \frac{1}{3} = 6000 \neq 5400$

Olga is not correct.

Use the box below to show your check.

☑

$6000 \times 3 = 18000$

(Total for Question 5 is 6 marks)

6 Winston and Karen are going on holiday to Pula.

They want to book a double room in a hotel.
The hotel must be less than 1 mile from the city centre.

They want to spend as little money as possible.

They find this information.

hotel	type of room	distance from city centre	cost of room for one night
Grand Hotel	double	0.9 miles	£193
Beach Hotel	double	1.2 miles	£ 95
Palace Hotel	twin	0.6 miles	£149
Club Hotel	double	0.8 miles	£160
Royal Hotel	twin	1.6 miles	£169
Mountain Hotel	double	0.7 miles	£169

(a) Which hotel should Winston and Karen book? (1)

Use the box below to show clearly how you get your answer.

Club hotel.

In the hotel Winston and Karen see this offer.

Walking Tour

Normal price
250 Croatian Kuna
Book today save 15%

(b) Work out 15% of 250

(2)

Use the box below to show clearly how you get your answer.

15% = 0.15

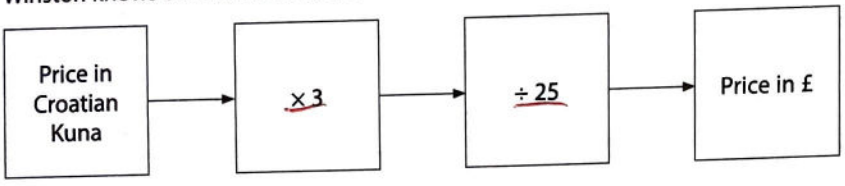
0.15 × 250 = 37.5

(Total for Question 6 is 3 marks)

7 Winston wants to go on a boat trip.
He sees these offers for a half day boat trip.

Offer A	Offer B
Boat trip	Boat trip
£26.50	230 Croatian Kuna

Winston knows this rule to convert from Croatian Kuna to £.



Winston wants to know which offer is cheaper.

Which offer is cheaper? (3)

Use the box below to show clearly how you get your answer.

230 × 3 = 690
690 ÷ 25 = £27.60 > £26.50
Offer A is cheaper.

(Total for Question 7 is 3 marks)

SECTION C: Hot tub

Answer all questions in this section.

Write your answers in the spaces provided.

8 Mr Smith wants to buy a hot tub.

There are two options to pay for the hot tub.

Hot tub	
Option 1	cash price £5000
Option 2	pay 20% of the cash price now and pay £183.80 each month for 2 years

Mr Smith uses option 2

How much extra will Mr Smith pay in total using option 2 instead of option 1?

(5)

Use the box below to show clearly how you get your answers.

20% of £5000 = 0.2 × 5000 = £1000

£183.80 × 24 = £4411.20

£1000 + £4411.20 = £5411.20

£5411.20 − £5000 =

£411.20 extra

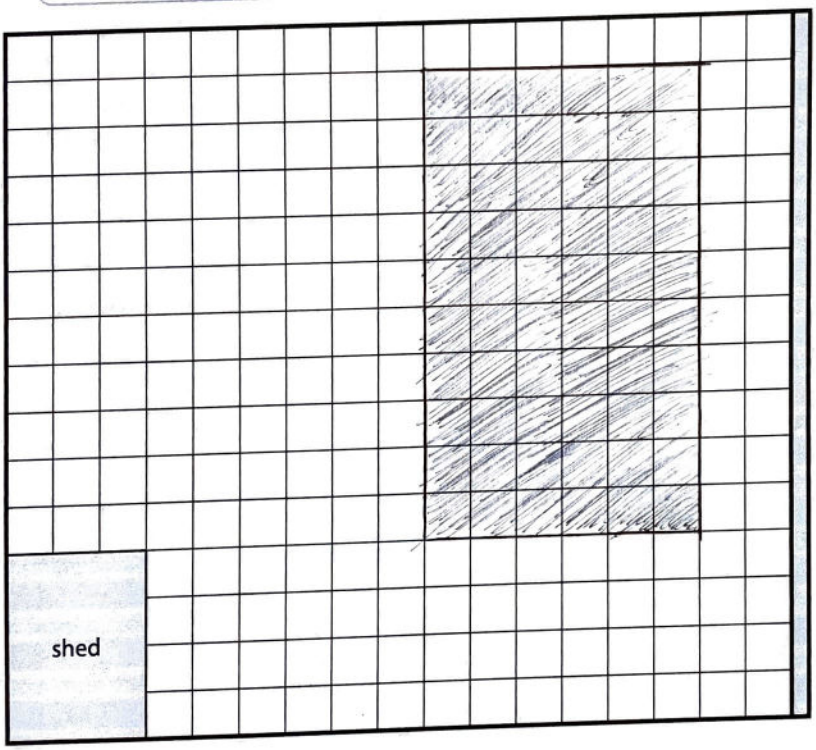
9 Mr Smith wants to build a platform for the hot tub in the garden.

The platform

- needs a rectangular space 5 m by 3 m
- must be at least 2 m from the back of the house
- must be at least 1 m from all the edging.

Mr Smith draws a plan of the garden on a grid.

(a) Draw the space for the platform on the grid. (3)



Key 1 square on the grid is 50 cm by 50 cm in the garden
—— edging

Mr Smith draws a sketch of the platform.

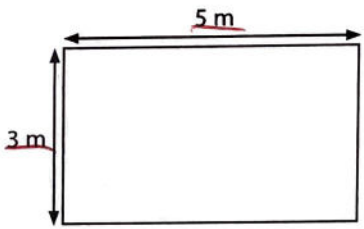


Diagram **not** accurately drawn

Mr Smith wants to put border fencing around the edge of the platform.
He can buy border fencing in lengths of 200 cm.

Mr Smith can cut and join the lengths of border fencing.
He thinks he needs 7 lengths of border fencing.

(b) Is Mr Smith correct?
Show why you think this. (4)

Use the box below to show clearly how you get your answer.

200 cm = 2 m
2 × 7 = 14 m
3 + 5 + 3 + 5 = 16 m

16 > 14

Mr Smith is not correct.

Mr Smith wants to fill the empty hot tub with water.
He will use 1350 litres of water.

Mr Smith fills up the hot tub with 18 litres of water every minute.

(c) How long will it take to fill the hot tub with 1350 litres of water?
Show a check of your working. (3)

Use the box below to show clearly how you get your answer.

$1350 \div 18 = 75$ minutes.

$= 1\text{h } 15\text{m}$.

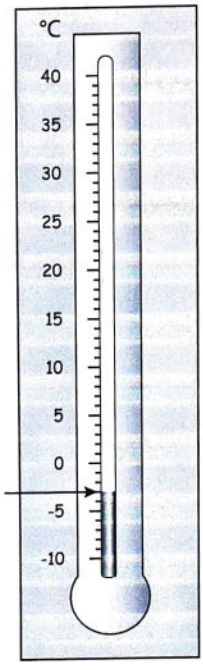
Use the box below to show your check.

☑

$75 \times 18 = 1350$

(Total for Question 9 is 10 marks)

10 Mr Smith looks at the thermometer in his garden.



Write down the temperature shown on the thermometer. (1)

Use the box below to show your answer.

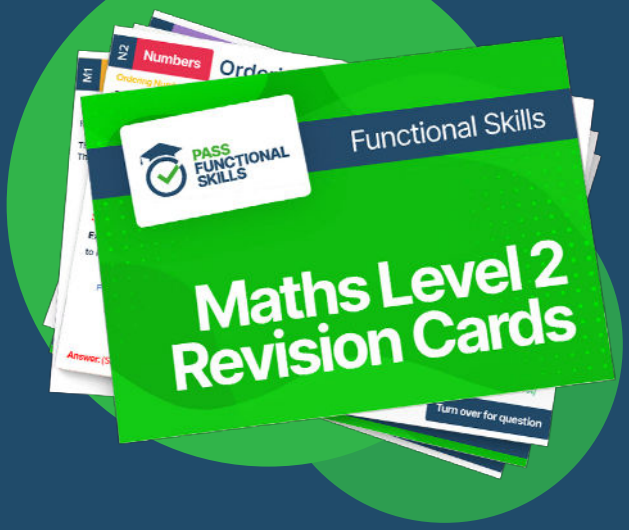
$-3\,^{\circ}C$

(Total for Question 10 is 1 mark)

TOTAL FOR PAPER IS 48 MARKS

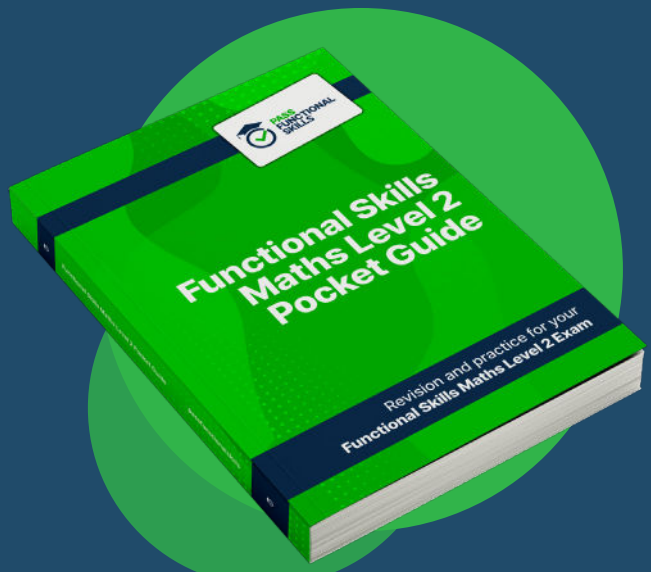
PASS FUNCTIONAL SKILLS

Functional Skills Maths
Level 2 Practice Papers



Functional Skills Maths
Level 2 Revision Cards

Functional Skills English Level 2
Practice Papers & Revision Cards



Functional Skills Maths
Level 2 Pocket Revision Guide

Or visit
passfunctionalskills.co.uk